Index of Claims

| _     |       | 4.    |      |      |     |    |
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10/751,242 Examiner

Prema M. Mertz

Applicant(s)/Patent under Reexamination

ISHIKAWA ET AL.

Art Unit

1646

| √ | Rejected | - | (Through numeral)<br>Cancelled |  | ١ | Non-Elected  | A | Appeal   |
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| Cla      | aim      | 3              | <u> </u>       |   |          | Date     | <del></del> |                 |                 | _ | Cla         | aim      |              |                         |               | Dat      |                 |               | _       |      | Cla   | aim      |          |           |          | [        | Date            | <del></del> |          |          | $\neg$  |
|----------|----------|----------------|----------------|---|----------|----------|-------------|-----------------|-----------------|---|-------------|----------|--------------|-------------------------|---------------|----------|-----------------|---------------|---------|------|-------|----------|----------|-----------|----------|----------|-----------------|-------------|----------|----------|---|
|          |          | I              |                |   |          |          |             |                 |                 |   |             |          | П            | Т                       | $\top$        | T        |                 |               |         |      |       |          |          |           |          |          |                 |             |          |          | コ   |
| Final    | Original | 1/5/01         |                |   |          |          |             |                 |                 |   | Final       | Original |              |                         |               |          |                 |               |         |      | Final | Original |          |           |          |          |                 |             |          |          |   |
|          |          | _              |                |   |          |          |             |                 |                 |   |             | 51       | $\dashv$     | _                       | _             | +        |                 |               | +       |      |       | 101      |          |           |          | L        | _               | -           |          | -        | $\dashv$  |
| <b>-</b> | 1        | ~              |                |   | -        | Н        | $\vdash$    | <u> </u>        | $\vdash$        |   | -           |          | $\dashv$     | -                       | +             | +        | $\vdash$        | +             | +       |      |       |          | -        |           |          | $\vdash$ | $\dashv$        | -           |          | -        | $\dashv$  |
|          | 2        | 4              | Ш              |   | Щ        | Щ        | _           | _               | Щ               |   |             | 52       | $\vdash$     | $\dashv$                | +             | +        | $\sqcup$        |               | +       |      |       | 102      | $\dashv$ |           |          | $\vdash$ | $\dashv$        | -           |          |          |   |
|          | 3        | ~              |                |   |          | Ш        |             |                 |                 |   |             | 53       |              |                         |               |          | ш               |               | _       |      |       | 103      |          |           |          |          |                 |             |          | _        | _   |
| <u></u>  | 4        |                |                |   |          |          |             | L               |                 |   |             | 54       |              |                         |               |          | Ш               |               |         |      |       | 104      |          |           |          |          | Ш               |             |          |          | _   |
|          | 5        | L              |                |   |          | Ш        |             |                 | Ш               |   |             | 55       |              |                         |               |          | Ш               |               |         |      |       | 105      |          |           |          |          |                 |             | _        | _        | _   |
|          | 6        |                |                |   |          |          |             |                 |                 |   |             | 56       |              | $\perp$                 | $\perp$       | $\perp$  |                 |               |         |      |       | 106      |          |           |          |          |                 |             |          | $\Box$   | ╝   |
|          | 7        | l              |                |   |          |          |             |                 |                 |   |             | 57       |              |                         |               | į        |                 |               |         |      |       | 107      |          |           |          |          |                 |             |          |          |   |
|          | 8        |                |                |   |          |          |             |                 |                 |   |             | 58       |              |                         |               | Ī        |                 |               |         |      |       | 108      |          |           |          |          |                 |             |          |          |   |
|          | 9        |                |                |   |          |          |             |                 |                 |   |             | 59       |              | $\neg \vdash$           | Т             | Т        | П               |               |         |      |       | 109      |          |           |          |          |                 |             |          |          |   |
|          | 10       |                |                |   |          |          | ·           |                 |                 |   |             | 60       |              |                         |               |          |                 |               |         |      |       | 110      |          |           |          | Г        |                 |             |          |          | $\neg$  |
|          | 11       |                |                |   |          |          |             |                 |                 |   |             | 61       |              | $\neg$                  |               |          | П               |               |         | 1    |       | 111      |          |           |          |          | $\Box$          |             | ヿ        | $\neg$   | ╗   |
|          | 12       |                |                |   | $\vdash$ |          |             |                 |                 |   | <b></b>     | 62       | $\dashv$     | $\dashv$                | $\top$        | T        | $\vdash$        |               | $\top$  | 1 1  |       | 112      | $\Box$   |           |          |          | $\vdash$        | $\neg$      | $\neg$   |          | $\neg$  |
| <b>—</b> | 13       | Г              | Н              |   | $\vdash$ | $\vdash$ | $\vdash$    |                 | Н               |   |             | 63       | $\vdash$     | _                       | $\top$        | $\top$   | П               | $\neg$        | +       |      |       | 113      |          |           |          |          | H               |             |          |          | $\dashv$  |
|          | 14       | $\vdash$       | H              |   | $\vdash$ | $\vdash$ |             | $\vdash$        | $\vdash$        |   |             | 64       | $\vdash$     | $\dashv$                | $\dashv$      | T        | $\vdash$        | $\dashv$      | +       |      |       | 114      | $\vdash$ | -         |          | _        |                 | $\vdash$    | $\dashv$ |          | $\dashv$  |
| $\vdash$ | 15       | H              |                |   | $\vdash$ | H        |             |                 | H               | - |             | 65       | $\vdash$     | $\dashv$                | +             | +        | $\vdash$        |               |         | <br> |       | 115      | $\vdash$ |           |          | $\vdash$ | $\vdash$        | -           | $\dashv$ | -        | $\dashv$  |
| $\vdash$ | 16       | $\vdash$       | Н              |   | -        | $\vdash$ | _           | <u> </u>        | -               |   | <del></del> | 66       | $\vdash$     | +                       | +             | +        | $\vdash$        | $\dashv$      | +       |      |       | 116      | $\vdash$ | $\dashv$  | Н        | $\vdash$ | $\vdash$        | $\vdash$    | $\dashv$ | -        | $\dashv$  |
| -        | 17       | $\vdash$       | Н              | _ | $\vdash$ | $\vdash$ | -           | -               | $\vdash$        |   |             | 67       |              | +                       | +             | +-       | $\vdash \vdash$ | $\dashv$      | +       |      |       | 117      | $\vdash$ | $\dashv$  | -        | -        | $\vdash$        | -           | $\dashv$ | $\dashv$ | $\dashv$  |
|          | 18       | H              | -              |   | -        | $\vdash$ | _           | _               | -               |   |             | 68       | $\dashv$     | -                       |               | +        | $\vdash$        |               | +       | 1    |       | 118      |          | $\dashv$  | _        | ┝        | Н               | -           |          | -        | $\dashv$  |
| -        |          |                |                |   |          | $\vdash$ |             |                 |                 |   |             |          | $\vdash$     | +                       | +             | +        | ╁               |               |         |      |       | 110      | -        | _         |          |          | -               |             | $\dashv$ |          | $\dashv$  |
| -        | 19       |                |                |   |          |          |             |                 | -               |   |             | 69       |              |                         |               |          | $\vdash$        | -             | +       |      |       | 119      |          |           |          | -        |                 |             | -        | $\dashv$ | $\dashv$  |
|          | 20       | L              | -              |   |          | Ш        |             |                 | Н               |   |             | 70       | $\dashv$     | $\dashv$                | +             | +-       | <del> </del>    |               |         |      |       | 120      |          |           |          | <u> </u> | -               |             |          | -        |   |
|          | 21       | _              | Ш              |   | Ш        | _        |             |                 | Ш               |   | ļ           | 71       | $\sqcup$     |                         |               | _        | _               |               | _       |      |       | 121      |          |           |          | L        | Ш               |             |          | _        | _   |
|          | 22       |                |                |   |          |          |             |                 |                 |   |             | 72       |              |                         |               | ļ        |                 |               |         |      |       | 122      |          |           |          | L.       |                 |             | $\dashv$ | _        | _   |
|          | 23       |                |                |   |          |          |             |                 |                 |   |             | 73       | $\Box$       |                         | ┸             | <u> </u> | Ш               |               |         |      |       | 123      |          |           |          |          |                 |             |          | _        | _   |
|          | 24       |                |                |   |          |          |             |                 |                 |   |             | 74       | Ш            | $\perp$                 | $\perp$       | $\perp$  | Ш               |               | $\perp$ |      |       | 124      |          |           | L        | L        |                 |             | _        |          | _   |
|          | 25       |                |                |   |          |          |             |                 |                 |   |             | 75       |              |                         | 丄             |          | Ш               |               |         |      |       | 125      |          |           |          |          |                 |             |          |          | _   |
|          | 26       |                |                |   |          |          |             |                 |                 |   |             | 76       |              |                         |               |          |                 |               |         |      |       | 126      |          |           |          | ٠        |                 |             |          |          |   |
|          | 27       |                |                |   |          |          |             |                 |                 |   |             | 77       |              |                         |               | 1        |                 |               |         |      |       | 127      |          |           |          |          |                 |             |          | j        |   |
|          | 28       |                |                |   |          |          |             |                 |                 |   |             | 78       |              |                         | Т             | Τ.       |                 |               |         |      |       | 128      |          |           |          |          |                 |             |          |          |   |
|          | 29       | П              |                |   |          |          |             |                 |                 |   |             | 79       |              | Т                       | $\neg \vdash$ | T        | П               |               | $\top$  |      |       | 129      |          |           |          |          |                 |             |          |          | $\neg$  |
|          | 30       |                |                |   | $\Box$   |          |             |                 |                 |   |             | 80       |              | $\neg$                  | 丅             | T        |                 |               | 丁       |      |       | 130      |          |           |          |          |                 |             |          |          |   |
|          | 31       |                |                |   |          |          |             |                 |                 |   |             | 81       | $\Box$       | $\top$                  | ┪             | 1        | П               | T             | 十一      | 1    |       | 131      |          |           |          |          |                 |             | $\neg$   |          | ╗   |
|          | 32       |                | П              |   |          |          | П           |                 |                 |   |             | 82       | $\sqcap$     | 十                       | $\top$        | 1        | $\sqcap$        |               |         |      |       | 132      | $\neg$   |           |          |          | П               | П           |          | 一        | $\dashv$  |
|          | 33       | $\vdash$       | $\vdash$       |   | П        | Н        | П           | П               | $\Box$          |   |             | 83       | $\vdash$     | $\dashv$                | $\dashv$      | $\top$   | $\Box$          | $\neg$        |         |      |       | 133      | $\neg$   |           |          |          | $\vdash$        |             | $\neg$   | _        | $\dashv$  |
| <b>—</b> | 34       | Т              | $\vdash$       |   | $\Box$   | Н        | Н           | Н               | Н               |   |             | 84       | $\vdash$     | +                       | +             | +        | $\vdash$        | $\dashv$      | +       |      |       | 134      | $\dashv$ |           |          | Н        | $\vdash$        | $\dashv$    | $\dashv$ |          | $\dashv$  |
|          | 35       |                | $\vdash$       |   | $\vdash$ | Н        | Н           | Н               | $\vdash$        |   |             | 85       | -            | 十                       | +             | +-       | $\vdash$        |               | +       |      |       | 135      | $\dashv$ |           | _        | Т        | $\vdash$        | $\vdash$    | $\dashv$ | $\dashv$ | $\dashv$  |
| <u> </u> | 36       | $\vdash$       | $\vdash$       |   | Н        | Н        | Н           | H               | $\vdash$        |   | -           | 86       | $\vdash$     | +                       | +             | +        | $\vdash$        | +             | +       |      |       | 136      |          | $\dashv$  |          | H        | $\vdash$        | $\vdash$    | -        | $\dashv$ | $\dashv$  |
| $\vdash$ | 37       | -              | $\vdash$       |   | $\vdash$ | Н        | $\vdash$    | $\vdash \vdash$ | $\vdash$        |   |             | 87       | ∺            | +                       | +             | +        |                 | $\dashv$      | +       | l    |       | 137      | $\vdash$ | -         | -        | -        | $\vdash$        |             | $\dashv$ | $\dashv$ | $\dashv$  |
| <u> </u> | 38       | -              | $\vdash$       |   | $\dashv$ | $\vdash$ | Н           | $\vdash$        | $\vdash$        | _ |             | 88       | $\vdash$     | +                       | +             | +        | ┼┼              | +             | +       |      |       | 138      | -        |           |          | $\vdash$ | -               | $\vdash$    | -        | $\dashv$ | $\dashv$  |
| <u> </u> | 39       | <del>  -</del> | $\vdash$       |   | $\dashv$ | Н        | Н           | Н               | $\vdash \vdash$ |   |             | 89       | $\vdash$     | $\dashv$                | +             | +-       | ┼┤              | +             | +-      |      |       | 139      | $\dashv$ |           | -        | -        | $\vdash$        | $\vdash$    | $\dashv$ | -        | $\dashv$  |
| $\vdash$ | 40       | $\vdash$       | $\vdash\vdash$ |   | $\dashv$ | Н        | Н           | Н               | $\vdash$        |   | -           | 90       | $\vdash$     | +                       | +             | +        |                 | +             | +       |      |       | 140      | -        | $\vdash$  | -        | -        | $\vdash$        | H           | $\vdash$ | -        | $\dashv$  |
| <u></u>  |          | -              |                |   | $\dashv$ | Н        | Н           | $\vdash$        | $\vdash \vdash$ |   |             |          | $\vdash$     | +                       | +             | +        | $\vdash$        |               | +-      |      |       |          | $\vdash$ | $\square$ | $\vdash$ | ├        | $\vdash \vdash$ |             |          |          |   |
| -        | 41       | H              | Н              |   |          |          |             | $\vdash$        | $\vdash$        |   |             | 91       | $\vdash$     | -                       | +             | 4-       | $\vdash$        | +             | +       |      |       | 141      | $\dashv$ |           |          | <u> </u> | $\vdash$        |             |          |          | _   |
| $\vdash$ | 42       | <u> </u>       | -              |   |          |          |             | Щ               | $\sqcup$        |   |             | 92       |              | +                       | +             | 4        | $\vdash$        |               | -       |      |       | 142      |          |           |          | L        |                 | Щ           | _        | _        | 4   |
|          | 43       | Щ              | $\square$      |   |          | Щ        | Щ           | Ь               |                 |   |             | 93       | $\sqcup$     | 4                       |               | $\bot$   | Ш               | $\perp$       |         |      |       | 143      |          |           |          | L_       | Щ               |             | $\Box$   |          | _   |
|          | 44       | <u> </u>       |                |   |          |          | Ш           | Ш               |                 |   |             | 94       |              | $\perp$                 |               | 1        | $\sqcup$        | $\perp$       | - -     |      |       | 144      |          |           |          | L.       |                 |             |          |          |   |
| L        | 45       |                |                |   |          |          |             |                 |                 |   |             | 95       | $\Box$       |                         | $\perp$       | 1_       | Ш               | $\perp \perp$ | Д.      |      |       | 145      |          |           |          |          |                 |             |          |          |   |
|          | 46       |                |                |   |          |          |             | لط              |                 |   |             | 96       |              |                         |               | L        | Ш               |               |         |      |       | 146      |          | ]         |          | L        | ]               |             | $\sqcup$ |          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}$ |
|          | 47       |                |                |   |          |          |             |                 |                 |   |             | 97       | $oxed{oxed}$ | $oldsymbol{\mathbb{I}}$ | $\int$        | L        |                 | $\Box \Gamma$ |         |      |       | 147      |          | _]        |          |          |                 |             |          | ]        | _]  |
|          | 48       |                |                |   |          |          |             |                 |                 |   |             | 98       | $_{T}$       |                         |               |          |                 |               |         |      |       | 148      |          |           |          |          |                 |             |          |          | $\Box$  |
|          | 49       |                |                |   |          |          |             | П               | $\sqcap$        |   |             | 99       |              | $\neg$                  |               | T        | П               |               |         |      |       | 149      |          |           |          |          |                 |             |          | $\neg$   | ヿ   |
|          | 50       |                |                | П |          |          | П           | П               | $\Box$          |   |             | 100      |              | 十                       | 1             | T        |                 |               | 1       |      |       | 150      |          |           |          |          |                 | $\neg$      | 寸        |          | ヿ   |
|          |          |                |                |   |          |          |             |                 |                 |   |             |          |              |                         |               |          |                 |               |         |      |       |          |          |           |          |          |                 |             |          |          |   |